# The Builder

A JOURNAL FOR THE

# Architect, Engineer, Operative & Artist.

Vol. IX.—No. 448. SEPTEMBER 6, 1851. Price Fourpence. Stamped 4d.


## ILLUSTRATIONS.


The Linen House, Frankfort-on-the-Maine ..... 549

Training Institution, Bishop's Stortford: Mr. Clarke, Architect ..... 549


## CONTENTS.


On the Arrangement of Farm Buildings—Systems of Feeding Cattle—Ewart's Treatise on this Subject—Models in Great Exhibition ..... 553

The Classification of Mediæval Architecture ..... 557

The Lock Controversy ..... 559

Cleopatra's Needle ..... 559

The Improvement of British Artisans ..... 559

An Iron Ball-room for Prince Albert ..... 559

France and England—A Comparison ..... 560

Strikes ..... 560

Guides in the Great Exhibition ..... 561

Notes in the Provinces ..... 561

The Linen House, Frankfort-on-the-Maine ..... 562

Fire Destroyers ..... 562

Training Institution, Bishop's Stortford ..... 562

The Sewer and the Banqueting-house ..... 563

Engineering and other Intelligence from Ireland ..... 563

Architectural Competitions: Second Letter ..... 565

Railway Jottings ..... 565

Tenders for Repairs of St. Paul's, Covent-garden ..... 566

Books: Lee on Public Health (Eyre and Co.); Vane on British Museum Antiquities (Murray); Roberts on Model Houses (Seeley, &c.); "The Times" on Rail Literature (Murray) ..... 566, 567

Miscellanea ..... 567


## ADVERTISEMENTS.


THEODOLITE for SALE, by "Dollond," has been only used a few times, and is of first-rate description. Price moderate.—To be seen at the Office of "The Builder," York street, Covent-garden.

TO BUILDERS, CARPENTERS, &c.

FOR SALE, a new patent PLANING-MACHINE, adapted for planing the surface of boards of all thicknesses from 15 inches wide. Can be worked either by steam or hand power. Price, £41.—WORRAM and CO., Engineers, King's-road, Chelsea.

SAWING MACHINERY FOR SALE—Second-hand, viz.—a Steam Engine of twenty horse power, with Boiler, two Back Saw Mills (large and small size), with Engine Power complete; a Vertical Deal Saw Mill; two Circular-saw Benches, with cast-iron framings; and a Planing Machine, with all necessary gears.—Apply, PERRUTT, Hive Iron Works, Cork, or Office of "The Builder," 1, York-street, Covent-garden.

TO BUILDERS, WHARFINGERS, AND OTHERS.

TO BE SOLD, a GETTING SAND BARGE, with gear and boat all complete, and ready for immediate use.—Apply at the "Bricklayers' Arms," Narrow-street, Limehouse-cut.

TO BE SOLD CHEAP, SIX MAHOGANY SASHES and FRAMES, with Shutters complete, 6 feet high, 4 feet wide, just taken down from a gentleman's mansion. Also a very excellent crab; a very good Gothic Pulpit, with iron [illegible]; a reading-desk; and communion rail, just taken from a new church.—For particulars inquire of Mr. RICHARDS, Salisbury-wharf, Strand.

TO LANDLORDS AND OTHERS.

WANTED to RENT, with immediate possession, a substantially-built MANSION-HOUSE, with or without coach-house and stabling. It must contain not less than thirty rooms fit for offices, exclusive of the basement story. The situation to be west of Temple-bar; either Lincoln's-inn-fields, the Strand, Holborn, St. James's-square, Whitehall, or Westminster, near the Houses of Parliament.—Written terms and particulars to be forwarded to A. B., Brissett's Newspaper Office, 5, Parliament-street, Westminster. No personal application will be attended to.

LAND TO BE LET.—A Piece of FREEHOLD LAND for two pairs of semi-detached Residences, in the Bath road, near HOUNSLOW, and about a mile from the railway station. Also land at BORWOOD and CROYDON. Money advanced.—Apply to Mr. W. J. HOLT, Solicitor, 13, Chancery-lane, Blackfriars; and Mr. WHITING, Castle-terrace, Bath-road.

BUILDING LAND.—TO BE LET, on Building Leases, several PLOTS of FREEHOLD LAND, for the Erection of four and six-roomed Houses, in a commanding situation, near the Victoria-park, Hackney. Also at Tottenham and Edmonton, near the Railway Station, where good houses are [illegible].—Apply for particulars to Mr. WILKINSON, Timber Merchant, 181, Shoreditch.

SHOOTER'S-HILL, KENT.—BUILDING GROUND, &c.—TO BUILDERS AND OTHERS.—TO BE LET, on a Repairing or Building Lease, a roomy FAMILY RESIDENCE, together with about four-and-a-half acres of singularly adapted Freehold Building Land. The residence is capable of being converted into three, or otherwise much improved. The situation is extremely healthy, and the views most extensive and magnificent, overlooking the metropolis, with the noble river and forest of shipping. There is room for the erection of six genteel villas. Distance from railway station, fifteen minutes' walk.—Apply to Mr. JOHN COLLIER, Surveyor, 7, Clement's-lane, City.


EAST LONDON WATER WORKS.—The appointment of ENGINEER to this Company is VACANT, by the resignation of Thomas Wicksteed, Esq. Parties who propose to become Candidates may send in their applications to the Court of Directors, accompanied by certificates of character and requisite talent, to the Company's office, 14, St. Helen's-place, Bishopsgate-street, addressed to the Secretary, on or before SATURDAY, the 13th day of September next. No one will be considered eligible who is under Thirty or above Forty years of age, or who is not practically acquainted with the superintendence of Water Works; or who will not, in the event of his election, engage, from such period as the Directors of the Company may determine, to reside constantly at the house provided for the Engineer at the Works at Old Ford, and to devote his time and attention exclusively to the Company's business. Salary, and per annum, with the usual allowance of coals and candles. Any further particulars which candidates may require, can be obtained by their making personal application at the Company's office aforesaid, between the hours of 10 and 4 daily.

J. CECIL,
Chief Clerk and Secretary.

August 30, 1851.

## CONTRACTS.

TO BUILDERS.

PERSONS desirous of CONTRACTING for the ERECTION of THREE PAIRS of SEMI-DETACHED RESIDENCES, adjoining the East Railway Station at CROYDON, may see the plans and specifications at the office of Mr. F. D. BANISTER, Architect and Surveyor, 10, Shipstreet, Brighton, on and after Monday, September 1st, to whom tenders are to be sent up by Monday, September 15th. The parties letting the work will not bind themselves to accept the lowest or any other tender.

TO BUILDERS.

PERSONS desirous of CONTRACTING for the ERECTION of THREE PAIRS of HOUSES, part of a much larger number of the same description intended to be built, and also a COTTAGE adjoining, at NEW PECKHAM, may inspect the drawings and specifications at the Office of Mr. JOHN SIMMONS, 33, Eastcheap, City, on and after MONDAY, September 8th, to whom tenders are to be sent on or before Monday, the 15th September at Twelve o'clock. The lowest or any other tender will not necessarily be accepted.

TO CONTRACTORS.—NEW CHURCH, HOVE, near Brighton.

PERSONS desirous of CONTRACTING for the above may see the plans, specifications, and draft of contract at the office of Messrs. W. G. and E. HABERSHON, the Architects, 20, Bloomsbury-square, London, on and after the 8th of September instant. Sealed tenders to be delivered at the Norfolk Arms, Waterloo-street, Hove, directed to ROBERT CUPPERTON, Esq., by Twelve o'clock, on third of September instant. The Committee do not hind themselves to let any of the work tendered for, nor to accept the lowest tender. Forms of tender to be obtained from Messrs. W. G. and E. HABERSHON on and after the 15th instant.

ROBT. CUPPERTON, Hon. Sec. to Committee.

7, Lansdowne-place, Hove, Brighton, 3rd Sept. 1851.

TO IRONFOUNDERS AND OTHERS.

THE Committee of Management of the Portsea Island Gaslight Company are prepared to receive TENDERS for the supply and delivery of the undermentioned CASTINGS, on the Town-quay, Portsmouth, viz.—1,100 yards of cast-iron socket pipes, of 16 inches internal diameter, weighing not less than 8 cwt. per yard; 700 yards of cast-iron socket pipes of 14 inches internal diameter, weighing not less than 6 cwt. per yard. The whole of the pipes to be of uniform bore and thickness of metal throughout, and proved with a pressure equal to 250 feet head of water, while struck with a db. hammer. Also bends, branches, tees, crosses, and syphons, with cover and stand-pipes fitted complete. The tenders for pipes to be at per yard, and for the other castings at per ton, to be delivered at the Company's office, Portsea, on or before TUESDAY, the 9th September, and the whole of the articles to be delivered as before mentioned not later than the 31st day of October. Payment to be made on the completion and approval of the deliveries.

TO SURVEYORS.

BOROUGH OF READING.—LOCAL BOARD OF HEALTH.—The Local Board of Health for the borough of Reading are desirous of receiving TENDERS for a SURVEY, LEVELS, and MAPS of the BOROUGH, for the purpose of the Public Health Act. The maps are to be prepared according to the scales and requirements fixed by the General Board of Health, and agreeably to the specifications and particulars prepared by Mr. JOHN BERRY CLACY, the Surveyor to the Board, and which may be seen at his office, 88, Broad-street, Reading, after Wednesday, the 3rd of September next, between the hours of ten and four o'clock. Sealed tenders, endorsed "Tender for Surveys and Maps" must be sent under cover, addressed to me, at the office of the Board, in Friar-street, Reading, on or before Thursday, the 18th day of September next. The Board do not bind themselves to accept the lowest or any of the tenders.

THOMAS RODGERS, Clerk to the Board.

10, Friar-street, Reading, Aug. 28, 1851.

TO IRONFOUNDERS, &c.

THE Commissioners for Public Baths and Washhouses, in the parish of All Saints, Poplar, HEREBY GIVE NOTICE, that they will meet at the Town-hall, Poplar, on WEDNESDAY, the 24th day of September, 1851, at Eleven o'clock in the morning precisely, to receive TENDERS for BOILERS, PIPES, and FITTINGS, connected with the Baths and Washhouses now erected in the East India Dock-road, in the said parish. The plans and specification may be seen, at the office of Mr. P. PRICHARD BALY, 14, Buckingham-street, Adelphi, from Monday, the 15th, to Saturday, the 20th instant, both days inclusive, between the hours of Ten and Four o'clock. The tenders are to be delivered, sealed, addressed to the "Commissioners of Public Baths and Washhouses, in the parish of All Saints, Poplar, Town-hall, Poplar," on or before Tuesday, the 23rd instant. The party whose tender is accepted will be required, with two sufficient sureties, to be approved of by the commissioners, to enter into contract and bond, or other security, for the due performance of the contract, as may be prepared by the solicitor for the commissioners, and at the expense of the contractor. The commissioners will not bind themselves to accept the lowest tender.

CHARLES C. CREEY, Clerk to the Commissioners.

September 6th, 1851.

## CONTRACTS.

TO BRASSFOUNDERS AND OTHERS.

THE Local Board of Health for the District of Tottenham HEREBY GIVE NOTICE, that they are prepared to receive TENDERS for SLUICE-COCKS, HYDRANTS, or FIRE-PLUGS, &c., for the water supply of their district. The specifications and conditions of contract may be obtained, upon payment of 2s. 6d., at the office of the surveyor to the Local Board of Health, Tottenham-green, on and after the 4th day of September inst. Sealed tenders, endorsed "Tender for Sluice-cocks, Hydrants, &c.," and addressed to the Clerk of the Local Board of Health, Tottenham, must be sent on or before the 12th day of September inst.—By order of the Board.

WILLIAM HEATH, Clerk.

Tottenham, September 2, 1851.

TO MANUFACTURERS OF DRAIN PIPES AND OTHERS.

THE Local Board of Health for the district of Tottenham HEREBY GIVE NOTICE, that they are prepared to receive TENDERS for STONE-WARE DRAIN PIPES, BENDS, and JUNCTIONS, for the sewerage of their district. The specifications and conditions of contract may be obtained, upon payment of 2s. 6d., at the office of the Surveyor to the Local Board of Health, Tottenham-green, where the drawings may also be inspected, on and after the 4th day of September instant. Sealed tenders, endorsed "Tender for Drain Pipes," and addressed to the Clerk of the Local Board of Health, Tottenham, must be sent on or before the 12th day of September inst.—By order of the Board.

WILLIAM HEATH, Clerk.

Tottenham, Sept. 2, 1851.

TO IRONFOUNDERS AND OTHERS.

THE Local Board of Health for the District of Tottenham HEREBY GIVE NOTICE, that they are prepared to receive TENDERS for CAST-IRON PIPES, &c., for the water supply of their district. The specifications and conditions of contract may be obtained, upon payment of 2s. 6d., at the office of the Surveyor to the Local Board of Health, Tottenham-green, where the drawings may also be inspected, on and after the 4th day of September instant. Sealed tenders, endorsed "Tender for Cast-iron Pipes," and addressed to the Clerk of the Local Board of Health, Tottenham, must be sent on or before the 12th day of September instant.—By order of the Board.

Tottenham, Sept. 2, 1851. WILLIAM HEATH, Clerk.

TO STEAM ENGINE MAKERS AND OTHERS.

THE Local Board of Health for the District of Tottenham HEREBY GIVE NOTICE, that they are prepared to receive TENDERS for MAKING, ERECTING, and SETTING to WORK TWO small high pressure cylinder STEAM-ENGINES, with Boilers, Pumps, &c., for the water supply of their district. The specifications and conditions of contract may be obtained, upon payment of 2s. 6d., at the office of the Surveyor to the Local Board of Health, Tottenham-green, where drawings may also be inspected, on and after the 4th day of September instant. Sealed tenders, endorsed "Tender for Steam Engines," and addressed to the Clerk of the Local Board of Health, Tottenham, must be sent on or before the 12th day of September instant.—By order of the Board.

Tottenham, Sept. 2, 1851. WILLIAM HEATH, Clerk.

GREAT BRITAIN STEAM-SHIP.—To Mine Proprietors, Water-work and Land-drainage Companies, Contractors, Manufacturers, and others.—The Proprietors of this ship desire TENDERS for the whole or for any distinct section that would not prejudice the entirety of the remainder of her STEAM MACHINERY, as originally constructed, consisting of four 40-inch cylinders of 4 feet stroke, with pistons and rods; air-pumps and condensers, connecting-rods and gudgeons, and all the detail of nozzle and valve-gearing necessary to render each pair of cylinders complete in themselves, from the pistons to the crank pins.—Apply to Mr. CROOME, Civil Engineer, or Captain MATHEWS, on board the vessel, Sandon Graving Dock, or GIBBS, BRIGHT, and Co., Liverpool.

PETERSFIELD GAS COMPANY.—The Directors are willing to receive TENDERS for the ERECTION of WORKS, Providing and Laying Pipes, and doing other matters necessary to supply the town of Petersfield with White's Hydro-Carbon Patent Gas. The contractor must arrange with the patentee respecting his rights as patentee. The length of main required will be about 1,600 yards of 3-inch pipe, and 400 yards of 2-inch and 1-inch pipe, and the number of public lamps will be about thirty. The Directors do not pledge themselves to take the lowest tender. Tenders containing plans, full specifications of the works to be done, with the prices for such works in detail, and of the time required to complete the same, are to be sent, on or before the 20th of September instant, to the office of Messrs. MITCHELL and MINTY, Solicitors, Petersfield, Hants.—Petersfield, Aug. 29, 1851.

TO BUILDERS.

ST. MARY, NEWINGTON, SURREY.—The Governors and Guardians will meet at the Board-room of the Workhouse, Walworth, on WEDNESDAY, the 24th day of Sept. inst., at Seven o'clock in the evening precisely, to receive and consider TENDERS for certain ADDITIONS and ALTERATIONS to the BUILDING on WALWORTH COMMON, for the purposes of a NEW WORKHOUSE for the parish.—Plans and specifications may be seen at the office of HENRY JARVIS, Esq., surveyor, 23, Trinity-square, Newington. The contractor will be required to enter into a contract and bond, at his own expense, to be prepared by the Solicitor to the Governors and Guardians, with sufficient sureties for the due performance of the contract. Tenders, sealed up, must be sent to the Clerk's office, 3, Kennington-lane, Walworth, before Five o'clock of the day of meeting. The Governors and Guardians do not bind themselves to accept the lowest or any other tender.

By order of the Board,
JOSEPH BURGESS,
Clerk to the Governors and Guardians.

Dated this 2nd day of September, 1851.

PARISH CONTRACTS.—Messrs. ORSI and ARMANI beg to inform Parish Authorities that they are open to CONTRACTS for the making and keeping in repair, FOOT PAVEMENTS, PATHS, &c., with their PATENT METALLIC LAVA, or with their newly-invented GRAVEL LAVA.

Messrs. O. & A. are willing to receive payments for work done, by Annual Instalments.

Specimens may be seen, and every information obtained at the Offices, 3, Guildhall Chambers, Basinghall-street.